



United States
Environmental Protection Agency

Seize the Moment: Opportunities for Green Chemistry and Green Engineering in the Pharmaceutical Industry

EPA Region 2
New York City Office, 30th Floor
290 Broadway, New York, NY
September 27, 2007

Agenda

7:30AM REGISTRATION

8:00AM **Welcome/Introduction**

*Kathleen Callahan, Deputy Regional Administrator, EPA Region 2
D. Christopher Watts, Standards & Technology, FDA Center for Drug
Evaluation and Research/Office of Pharmaceutical Science*

8:30AM **Session 1: The Pharmaceutical Industry—Environmental Footprint**

This session examines the environmental footprint of manufacturing processes associated with the pharmaceutical industry. EPA, FDA, and industry provide perspectives on opportunities and challenges to achieving sustainability in the industry.

*Sharon Austin, EPA Office of Pollution Prevention and Toxics
David J. C. Constable, GlaxoSmithKline
D. Christopher Watts, Standards & Technology, FDA Center for Drug
Evaluation and Research/Office of Pharmaceutical Science*

10:00AM BREAK (Networking)

10:30AM **Session 2: Green Chemistry and Green Engineering in the Pharmaceutical Industry**

This session provides knowledge on green chemistry and green engineering principles that leads to best design chemistry and process efficiencies

Richard Engler, EPA Office of Pollution Prevention and Toxics

(over)

- 11:00AM **Session 3: Green Chemistry/Green Engineering Technical Approaches**
This session showcases some synthesis pathways, process routes, technologies and other technical approaches that improve chemical design and process efficiency.
John Leazer, Merck & Co., Inc.
John Tucker, BioVerdant, Inc.
- 12Noon LUNCH
Lunch will include an opportunity for networking with your colleagues.
- 1:30PM **Session 4: Exemplary Practices of Green Chemistry and Green Engineering**
This session features inspirational change agents from the pharmaceutical industry that will share their experiences, collaborative efforts, accomplishments to date, and relevance to diverse audiences.
Berkeley W. Cue, Jr., ACS Green Chemistry Institute, Pharmaceutical Roundtable Association
Stephan P. Taylor, Bristol-Myers Squibb Company
- 2:30PM BREAK (Networking)
- 3:00PM **Session 5: Facilitated Dialogue—How to Better Promote Green Chemistry and Green Engineering in the Pharmaceutical Industry**
This session explores ideas on how to better promote green chemistry and green engineering in manufacturing processes associated with the pharmaceutical industry.
Introduction by Walter Schoepf, EPA Region 2 and
Ann Lee-Jeffs, Johnson and Johnson Worldwide
Facilitators TBD
- 5:00PM **Closing Remarks**
Nhan T. Nguyen, EPA Office of Pollution Prevention and Toxics
- 5:30PM ADJOURN